



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,333	10/700,333 11/03/2003		Mark Ledeboer	VPI/02-116 US	5159
27916	7590	12/14/2005		EXAMINER	
		CEUTICALS INC	BALASUBRAMANIAN, VENKATARAMAN		
130 WAVE			ART UNIT	PAPER NUMBER	
				1624	
				DATE MAILED: 12/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/700,333	LEDEBOER ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Venkataraman Balasubramani	an 1624				
Period fo	The MAILING DATE of this communication Reply	n appears on the cover sheet with t	ne correspondence address				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR FOR THE VER IS LONGER, FROM THE MAILING IS IN THE MAILING IS IN THE MAILING IS IN THE MAY IN THE MAILING IS I	NG DATE OF THIS COMMUNICAT FR 1.136(a). In no event, however, may a reply lon. Deriod will apply and will expire SIX (6) MONTHS statute, cause the application to become ABAND	TION. De timely filed from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status							
2a)□	Responsive to communication(s) filed on This action is FINAL . 2b) Since this application is in condition for all	This action is non-final.	prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)□ 7)□ 8)⊠ Applicati	Claim(s) 1-59 is/are pending in the applic 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-59 are subject to restriction and on Papers The specification is objected to by the Example 1.59 are subjected to by the Example 2.59 are subjected to by the Example 2.50 are subjected to	hdrawn from consideration. d/or election requirement.					
10)	The drawing(s) filed on is/are: a) Applicant may not request that any objection t Replacement drawing sheet(s) including the c The oath or declaration is objected to by the	accepted or b) objected to by to the drawing(s) be held in abeyance. correction is required if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).				
Priority u	nder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) 🔲 Notice 3) 🔲 Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94- nation Disclosure Statement(s) (PTO-1449 or PTO/S No(s)/Mail Date						

Art Unit: 1624

DETAILED ACTION

Claims 1-59 are pending.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Gróup I, claim(s) 1,4-9, 13-27 and 55-59, drawn to compound of formula I wherein $Z^1 = N$, $Z^7 = N$, namely 1,2,4-triazine compound, composition and method of use.

Group II, claim(s) 1, 2, 4-29, 31, 32, 34, 35, 37, 38 and 40-59 drawn to compound of formula I wherein $Z^1 = N$, $Z^7 = C(U)_n R^y$, namely pyrimidine compound, composition and method of use.

Group III, claim(s) 1, 4-9,13-27 and 55-59, drawn to compound of formula I wherein $Z^1 = CH$, $Z^7 = N$, namely pyridazine compound, composition and method of use.

Group IV, claim(s) 1, 3-28, 30, 31, 33, 34, 36, 37, 39 and 40-59, drawn to compound of formula I wherein $Z^1 = CH$, $Z^7 = C(U)_n R^y$, namely pyridine compound, composition and method of use.

The inventions listed as Groups I, II, III and IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Where there is lack of unity the requirement for restriction is proper- See MPEP 803.02. The requirement for unity of invention is two-fold: (1) common utility and (2) sharing a substantial structural feature disclosed as being essential to the utility.

Invention I, II, III and IV are independent and distinct from each other because they are directed to structurally dissimilar compounds that lack common core, namely, 1,2,4-triazine versus pyrimidine versus pyridazine versus pyridine. Consequently, the groups require separate prior art searches. They can be made and used independently. Art which may render obvious or anticipate one of the groups would not necessarily do the same for the other group. For example prior art cited in the International Search Report may not be applicable to all the above groups. Each can support a patent as the compounds of each group are capable of being utilized alone not in combination with other members listed in the Markush group.

Except for the N-C-NH and ring carbon, every ring element in the core is varied and it cannot be said that the above two features essentially contribute to utility recited in the claims. Thus the common structural feature essential for the said utility is not met with.

In addition, common utility requirement is also not met with as evident form the claims that these compounds can be used for treating cancer as well many other disease as evident form the instant claims 56-59 and the references cited in the IDS. Thus both the criteria set forth for unity of invention is not met with.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record

Application/Control Number: 10/700,333

Art Unit: 1624

showing the species to be obvious variants or clearly admit on the record that this is the

case. In either instance, if the examiner finds one of the inventions anticipated by the

prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a)

of the other invention.

In view of distinct nature of each of the invention, the restriction is set forth in

writing.

Applicant is advised that the reply to this requirement to be complete must

include an election of the invention to be examined even though the requirement be

traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication from the examiner should be

addressed to Venkataraman Balasubramanian (Bala) whose telephone number is (571)

272-0662. The examiner can normally be reached on Monday through Thursday from

8.00 AM to 6.00 PM. The Supervisory Patent Examiner (SPE) of the art unit 1624 is

James O. Wilson, whose telephone number is 571-272-0661. The fax phone number for

the organization where this application or proceeding is assigned (571) 273-8300. Any

Application/Control Number: 10/700,333 Page 5

Art Unit: 1624

inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAG. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-2 17-9197 (toll-free).

Veule Mersamu Balesubamanan Venkataraman Balasubramanian

12/12/2005